

ABSTRACT OF THE DISCLOSURE

A packet transmission method for transmitting packets classified according to a quality of service (QoS) requirement from a transmitting node to a receiving node is provided. In the transmitting node, the steps of: selecting sequentially a QoS class; dividing a queued packet to be transmitted belonging to the selected class into a plurality of predetermined data units, and transmitting one of the obtained predetermined data units; and applying a transmitter-side retransmission control process to the data unit to be transmitted when the selected class is a QoS class specified for data type packets are provided. In the receiving node, the steps of: receiving sequentially the data units transmitted from the transmitting node; assembling a plurality of received data units to decompress the original packet for each QoS class; and applying a receiver-side retransmission control process to the received data units to be assembled when the received data unit belongs to one of the QoS classes specified for the data type packets are provided.